S
553.28
O12
Oct.
1973

SHELVED WITH PERIODICALS

Montana State Library
3 0864 1006 0295 5

MONTANA OIL AND GAS STATISTICAL BULLETIN

ADMINISTRATORS

DONALD E. CHISHOLM, ADMINISTRATOR
P. O. BOX 217
HELENA, MONTANA 59601

DONALD A. GARRITY, ATTORNEY
1721 ELEVENTH AVENUE
HELENA, MONTANA 59601

JUDSON D. SWEET, PETROLEUM ENGINEER
15 POLY DRIVE
BILLINGS, MONTANA 59101

HERBERT D. HADLEY, GEOLOGIST
15 POLY DRIVE
BILLINGS, MONTANA 59101

BOARD MEMBERS

R. A. CAMPBELL, CHAIRMAN
1222 N. 27TH STREET
BILLINGS, MONTANA 59101

C.J. IVERSON, VICE CHAIRMAN
WHITLASH, MONTANA 59545

MILTON G. ANDERSON
P. O. BOX 73
SIDNEY, MONTANA 59270

PAUL C. BUNN
WESTLAND BLDG.
CHESTER, MONTANA 59522

JOHN P. MOORE
P. O. BOX 997
CUT BANK, MONTANA 59427

BOARD OF OIL AND GAS CONSERVATION
SAVINGS BLDG.
HELENA, MONTANA 59601

Vol. XXI, No. 10 **OCTOBER, 1973**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of October, 1973, averaged 97,416 barrels daily, an increase of 2,323 barrels from the average September production of 95,093.

The nine refineries in the state processed 145,329 barrels of crude oil daily for the month of October, 1973, an increase of 1,365 barrels from the 143,964 barrels processed daily during the month of September.

During October, 57 wells were completed, 3 oil, 7 gas and 47 dry holes.

During October, the commission issued 92 permits to drill new wells, an increase of 17 from the 75 permits issued during September.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA MONTH OF OCTOBER, 1973

IN STORAGE October 1st	
By Producers	311,328
By Transporters	1,337,313
By Refiners	757,706
TOTAL STORAGE	2,406,347
Produced in Montana During Month	3,019,910
Imported During Month	3,721,908
TOTAL	9,148,165
DISPOSITION:	
Refined in Montana	4,505,200
Exported	2,140,115
Used for Fuel or Lost	8,620
TOTAL	6,653,935
IN STORAGE October 31st	
By Producers	304,351
By Transporters	1,202,212
By Refiners	987,667
TOTAL STORAGE	2,494,230

NATURAL GAS WITHDRAWALS IN MONTANA

Month of October, 1973

Field	M. C. Ft.
Big Coulee	93,996
Blackjack	36,557
Bowdoin	474,166
Bowes	61,812
Cabin Creek	56,617
Cedar Creek	198,676
Cut Bank (including Regan)	275,717
Dry Creek	38,670
Elk Basin	49,401
Flat Coulee	6,832
Gold Butte	844
Grandview	8,467
Hardin	3,188
Keith Block	34,615
Kevin Sunburst	35,155
Lake Basin	32,418
Liscom Creek	46,110
Middle Butte	544
Mt. Lilly	1,342
Pine	56,324
Plevna	5,185
South Devon	13,958
Tiger Ridge	1,837,624
Trail Creek	7,818
Utopia	33,103
West Butte	8,369
Whitlash	63,946
Miscellaneous	244,643
TOTAL	3,726,097

Total Withdrawals for October, 1972, were 2,581,469.

MONTANA STATE LIBRARY
1515 E. 6th AVE.
HELENA, MONTANA 59620

PRODUCERS REPORT — MONTH OF OCTOBER, 1973

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped By		Used or Lost	Storage End of Month
					Pipeline	Truck		
3	Ash Creek	3	212	893	----	1,066	----	39
1	Bainville	1	2,282	2,220	----	2,312	----	2,190
3	Bannatyne	3	----	645	645	----	----	----
6	Bear's Den	7	833	1,202	----	1,012	----	1,023
18	Bell Creek	239	24,041	778,474	779,149	----	7	23,359
1	Benrud	1	173	228	214	----	----	187
3	Benrud East	3	1,750	13,520	13,381	----	----	1,889
1	Benrud Northeast	1	950	1,706	2,144	----	----	512
1	Berthelote	1	325	174	212	----	----	287
5	Big Wall	14	1,406	4,984	5,041	----	----	1,349
1	Blackfoot	1	503	425	425	----	----	503
6	Border	7	2,225	484	----	409	----	2,300
1	Bowes	41	3,695	11,004	9,541	----	----	5,158
1	Bradley	1	256	600	600	----	----	256
4	Brorson-Madison	4	938	3,081	----	2,653	----	1,366
5	Brorson-Red River	5	6,222	9,767	----	9,781	----	6,208
3	Brorson-Red River South	3	1,754	8,130	----	8,190	----	1,694
1	Burns Creek	1	712	2,376	----	2,065	592	431
6	Brush Lake	6	1,831	13,517	13,514	----	----	1,834
2	Cabin Creek	86	----	210,533	210,533	----	----	----
1	Canal	1	1,154	5,544	----	6,153	----	545
9	Cat Creek	39	3,269	14,196	14,977	----	----	2,488
1	Chelsea Creek	1	222	432	----	422	----	232
1	Clark's Fork	1	32	146	----	----	----	178
1	Clark's Fork South	1	485	62	----	184	----	363
2	Conrad South	2	----	407	407	----	----	----
1	Cow Creek	1	404	689	----	529	----	564
4	Cow Creek East	5	615	16,321	----	15,906	----	1,030
1	Culbertson	1	144	745	----	781	----	108
4	Cupton	7	3,068	7,530	4,678	2,673	----	3,247
122	Cut Bank	842	60,570	334,804	336,801	1,614	8	56,951
----	Dean Dome	----	65	----	----	----	----	65
1	Deer Creek	1	515	1,117	1,346	----	----	286
1	Delphia	1	313	831	----	850	----	294
4	Devil's Basin	4	773	223	171	----	----	825
2	Dwyer	10	4,473	11,745	11,451	----	498	4,269
3	Elk Basin	47	656	118,074	118,063	----	----	667
5	Elk Basin Northwest	8	1,473	3,025	2,714	----	----	1,784
4	Fairview	9	10,340	32,726	14,623	19,181	----	9,262
2	Fertile Prairie	2	949	1,358	----	1,386	----	921
5	Flat Coulee	21	2,541	10,384	10,286	----	----	2,639
34	Flat Lake	51	3,582	55,047	54,823	----	----	3,806
6	Flat Lake South	6	1,161	8,318	8,575	----	----	904
1	Four Buttes	1	400	343	----	424	----	319
1	Ft. Gilbert	2	202	13,391	12,811	----	----	782
1	Frannie	1	----	744	744	----	----	----
9	Fred & George Creek	27	1,430	41,999	40,604	----	----	2,825
1	Froid South	1	574	906	----	1,064	----	416
1	Gage	1	99	123	----	----	----	222
3	Gas City	18	6,700	21,388	20,180	4,135	----	3,773
1	Girard	1	1,397	820	----	580	----	1,647
11	Glendive	15	2,418	24,057	24,753	----	----	1,722
10	Goose Lake	28	3,150	25,246	24,968	----	----	3,428
7	Graben Coulee	18	4,826	12,477	11,579	1,337	----	4,387
3	Gypsy Basin	3	----	560	----	560	----	----
1	Hay Creek-Mission Canyon	1	72	245	281	----	----	36
1	Hay Creek-Red River	1	352	4,780	4,544	----	----	588
4	Hiawatha	4	2,694	6,059	6,073	----	----	2,680
1	Hibbard	1	----	1,562	----	1,044	----	518
----	Injun Creek	----	266	----	----	----	----	266
6	Ivanhoe	11	1,807	2,651	3,615	----	----	843
2	Jim Coulee	19	3,467	41,067	41,270	----	----	3,264
6	Keg Coulee	16	4,667	15,326	14,950	----	385	4,658
2	Keg Coulee North	2	796	3,126	3,146	----	----	776
1	Kelley	3	974	4,596	4,625	----	----	945
75	Kevin Sunburst	353	9,977	24,594	21,142	2,936	21	10,472
8	Laird Creek	10	736	2,747	----	3,041	----	442
1	Landslide Butte	2	1,300	466	----	415	----	1,351
3	Leary	3	1,366	2,150	----	1,472	40	2,004
1	Little Beaver	23	----	40,084	40,084	----	----	----
2	Little Beaver East*	10	1,422	11,950	11,910	----	----	1,462
1	Little Wall Creek	1	528	3,051	3,182	----	----	397
1	Lodge Grass	1	313	825	----	894	----	244
7	Lonetree Creek	7	4,827	22,722	21,130	----	----	6,419
3	Lookout Butte (Coral Creek)	30	395	58,644	58,687	----	----	352
1	Mason Lake	1	347	444	347	----	----	444
2	Melstone	3	489	2,102	1,950	----	----	641
1	Mineral Bench	1	470	358	425	----	----	403
1	Miners Coulee	1	----	437	----	437	----	----
11	Monarch	14	5,266	13,270	11,428	3,170	----	3,938
3	Mosser	3	----	520	----	520	----	----
1	Nohly	1	477	9,081	----	8,753	----	805
3	Otis Creek	3	1,068	3,287	----	3,338	----	1,017
6	Outlook	8	4,932	12,929	14,743	----	----	3,118
1	Outlook South	1	644	317	----	----	----	961
2	Outlook West	2	1,381	2,250	2,339	----	----	1,292
1	Pennel-Lookout Butte	107	----	202,674	202,674	----	----	----
4	Pine	107	17,118	245,782	246,134	----	----	16,766
64	Pondera	260	3,585	24,980	25,523	----	----	3,042
6	Poplar	64	6,749	44,852	43,766	----	----	7,835
3	Poplar Northwest	3	1,144	1,220	1,043	----	----	1,321
----	Prairie Elk	----	474	----	----	----	----	474
1	Pritchard Creek	5	167	695	695	----	----	167
1	Putnam	2	242	8,670	----	8,670	----	242
3	Rabbit Hills	3	2,176	7,482	----	7,451	----	2,117
7	Ragged Point	16	3,709	18,485	17,803	----	----	4,391
2	Rattlesnake Coulee	2	339	365	----	----	----	704
4	Raymond	4	2,988	45,671	46,609	----	----	2,050
3	Reagan	43	821	14,816	14,792	----	----	845
1	Red Creek	19	----	14,278	14,278	----	----	----
1	Red Fox	1	351	540	652	----	----	239
1	Redstone	1	187	1,160	1,115	----	----	232
1	Repeat	1	60	80	----	120	----	20
3	Reserve	4	724	4,845	4,910	----	----	659
1	Richey	1	283	177	----	----	----	460
1	Richey Southwest	5	1,128	1,269	----	1,461	----	936
1	Rush Mountain	1	446	2,433	2,264	----	----	615
2	Salt Lake	3	690	3,481	----	3,867	----	304
1	Sand Creek	1	829	246	----	----	----	1,075
1	Second Creek	1	1,336	8,221	----	8,885	----	672
2	Sioux Pass	2	1,032	19,805	19,951	----	----	886
1	Snyder	4	224	149	----	161	----	212
7	Soap Creek	18	1,354	5,574	----	5,387	----	1,541
2	Spring Lake	2	1,041	1,418	----	1,538	----	921
3	Stensvad	8	3,771	46,422	46,099	----	----	4,094
17	Sumatra	72	19,186	100,501	100,561	----	109	19,017
5	Tule Creek	5	3,034	15,934	----	16,496	----	2,472
2	Tule Creek East	2	955	5,259	----	5,578	----	636
3	Tule Creek South	3	426	2,228	----	1,742	----	912
2	Vida	2	319	1,056	----	491	----	878
4	Volt	5	1,752	9,907	10,085	----	----	1,574
3	Weldon	3	1,015	5,784	5,784	----	----	1,015
1	West Butte	1	----	888	----	888	----	----
17	Whitlash	42	6,706	12,906	12,569	----	----	7,043
----	Whitlash West	----	284	----	----	----	----	284
2	Willow Creek North	2	482	2,129	2,005	----	----	606
2	Wills Creek South	2	----	2,587	2,587	----	----	----
2	Wolf Springs	2	1,310	1,562	1,728	----	----	1,144
2	Woodrow	2	583	2,334	2,768	----	----	149
2	Wright Creek	4	2,059	913	417	----	----	2,555
----	Wildcat, Blaine Co.	----	157	----	----	----	----	157
----	Wildcat, McCone Co.	----	62	350	----	375	----	37
2	Wildcat, Musselshell Co.	2	472	6,171	----	6,125	----	518
1	Wildcat, Roosevelt Co.	1	123	2,028	----	1,781	----	370
1	Wildcat, Toole Co.	1	294	192	----	192	----	294
689	TOTAL	2,980	311,328	3,019,910	2,842,636	182,591	1,660	304,351

Total Oil Produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1972	33,904,139	92,634	33,861,385	92,517
First Quarter, 1973	8,463,610	94,040	8,461,995	94,022
Second Quarter, 1973	8,624,084	94,770	8,628,131	94,815
Third Quarter, 1973	8,630,888	93,814	8,631,425	93,820
October, 1973	3,019,910	97,416	3,025,227	97,587

Oil In Storage	In Producers Field Tanks	In Transporters Storage	In Refiners Storage**	Total Oil in Storage**
December, 1972	320,567	1,303,848	1,228,659	2,853,074
March, 1973	319,421	1,187,629	669,292	2,176,342
June, 1973	313,690	1,360,758	743,010	2,417,458
September, 1973	311,328	1,337,313	757,706	2,406,347
October, 1973	304,351	1,202,212	987,667	2,494,230

*Montana Oil Only **Includes Wyoming Oil

TRANSPORTERS REPORT — MONTH OF OCTOBER, 1973

	Storage First of Month	Oil Received By			Loss or Gain	Oil Shipped To			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Western Crude Oil Co.			1,066				1,066		
BAINVILLE—Koch Oil Company			2,312				2,312		
BEAR'S DEN—Truck			1,012					1,012	
BELL CREEK—Pipeline	51,301	779,149					388,139	374,553	67,758
BIG WALL—Continental Pipeline Co.		5,041				5,041			
BLACKFOOT—									
Camerland Cardinal Corp.		425						425	
BORDER—Permian Corp.			409					409	
BOWES—Texaco		9,541				9,541			
BRORSON-MADISON, BRORSON-RED RIVER AND BRORSON-RED RIVER SOUTH—Koch Oil Company			20,624					20,624	
BRUSH LAKE—Portal Pipeline Co.		13,514					13,514		
BURNS CREEK—									
Western Crude Oil, Inc.			2,065				2,065		
CABIN CREEK AND OTHERS*—									
Butte Pipeline Co.	280,345	470,880	15,616	1,763,643			2,305,663		224,821
Shell Pipeline Co.	6,005	332,603			(294)			335,733	3,169
	286,350	803,483	15,616	1,763,643	(294)		2,305,663	335,733	227,990
CANAL—Koch Oil Company			6,153					6,153	
CAT CREEK—									
Continental Pipeline Co.		14,024					14,024		
CHELSEA CREEK—									
Western Crude Oil, Inc.			422				422		
CLARK'S FORK AND CLARK'S FORK SOUTH—Permian Corp.			184				184		
COW CREEK AND COW CREEK EAST—Western Crude Oil, Inc.			16,435				16,435		
CULBERTSON—Spruce Oil Co.			781				781		
CUT BANK—									
Continental Pipeline Co.		557,274	10,098					567,372	
Phillips Petroleum Co.	94,269	119,777		37,425	2,210	170,440			78,821
Texas Pipeline Co.	14,841	31,710		83,825				100,376	30,000
Union Oil Co.	66,541	39,654			1,075	61,774			43,346
Western Oil Trans. Co.		27,556						27,556	
Western Oil Trans. Co. (Moulton)		163,499						163,499	
	175,651	939,470	10,098	121,250	3,285	232,214		858,803	152,167
DELPHIA—Truck			850			850			
DWYER—Portal Pipeline Co.		11,607					11,607		
ELK BASIN AND ELK BASIN NORTHWEST—Marathon Pipeline Co.		120,276				120,276			
FAIRVIEW—									
Fairview Pipeline Co.		14,623					14,623		
Koch Oil Company			19,181				19,181		
		14,623	19,181				33,804		
FLAT COULEE—									
Camerland Cardinal Corp.		9,679				9,679			
FLAT LAKE AND FLAT LAKE SOUTH—Portal Pipeline Co.		63,398					63,398		
FT. GILBERT—									
Fairview Pipeline Co.		12,811					12,811		
FOUR BUTTES—Truck			424					424	
FRANNIE—Interstate Pipeline Co.		744					744		
FRED AND GEORGE CREEK—									
Camerland Cardinal Corp.	3,119	41,451				26,421		9,230	8,919
FROID SOUTH—Truck			1,064					1,064	
GIRARD—Koch Oil Company			580				580		
GLENDIVE, DEER CREEK, WOODROW AND SAND CREEK—									
Texas Pipeline Co.	9,598	23,922			491			24,283	8,746
GOOSE LAKE—Portal Pipeline Co.		24,053					24,053		
HAY CREEK—Fairview Pipeline Co.		4,825					4,825		
HIAWATHA—Continental Pipeline Co.		5,868					5,868		
IVANHOE—Continental Pipeline Co.		5,719				5,719			
JIM COULEE—									
Continental Pipeline Co.		41,270						41,270	
KEG COULEE AND KEG COULEE NORTH—Continental Pipeline Co.		18,096				18,096			
KELLEY—Continental Pipeline Co.		4,625				4,625			
KEVIN SUNBURST—									
Big West Oil Co.	7,143			12,843		13,038			6,948
Homestake Oil & Gas Co.	2,364	2,476				1,577			3,263
Texas Pipeline Co.	13,568	7,982		3,116	499	8,544			15,623
	23,075	10,458		15,959	499	23,159			25,834
LEARY—Permian Corp.			1,472				1,472		
LODGE GRASS—Permian Corp.			894			894			
MASON LAKE—									
Continental Pipeline Co.		347				347			
MELSTONE—Continental Pipeline Co.		1,950				1,756	194		
MIDDLE WALL—									
Continental Pipeline Co.**		2,518						2,518	
MOSSER—Permian Corp.			520				520		
NOHLY—Koch Oil Co.			8,753				8,753		
OTIS CREEK—									
Western Crude Oil, Inc.			3,338				3,338		
OUTLOOK, OUTLOOK SOUTH AND OUTLOOK WEST—									
Portal Pipeline Co.		17,090					17,090		
PONDERA—Phillips Petroleum Co.	32,267	28,083			232	17,850			42,268
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE—									
East Poplar Gathering System	12,539	55,853			534			58,880***	8,978
PUTNAM—Western Crude Oil, Inc.			8,670				8,670		
RABBIT HILLS—Truck			7,541				7,541		
RAGGED POINT—									
Continental Pipeline Co.		17,803				17,803			
RAYMOND—Portal Pipeline Co.		46,609					46,609		
RED CREEK—									
Western Oil Transportation Co.		22,470						22,470	
RESERVE—Portal Pipeline Co.		4,910					4,910		
RUSH MOUNTAIN—Sinclair Ref. Co.		2,264					2,264		
SALT LAKE—Koch Oil Company			3,867				3,867		
SECOND CREEK—Koch Oil Company			8,885				8,885		
SNYDER—Permian Corp.			161			161			
SOAP CREEK—Permian Corp.			5,387				5,387		
SPRING LAKE—Koch Oil Co.			1,538				1,538		
SUMATRA AND STENSVAD—									
Continental Pipeline Co.	740,348	131,583		2,959,435	1,740	124,379		3,047,722	657,525
TULE CREEK—									
Spruce Oil Co.	3,065		21,711			22,749			2,027
Permian Corp.			2,105			2,105			
	3,065		23,816			24,854			2,027
WOLF SPRINGS—									
Continental Pipeline Co.		1,728				1,728			
WHITLASH AND WHITLASH WEST—Camberland Cardinal Corp.		13,569				13,569			
WILDCAT WELLS—Truck			8,473					8,473	
TOTAL	1,337,313	3,324,849	182,591	4,860,287	6,487	658,962	3,023,333	4,814,046	1,202,212

*Cabin Creek, Cupton, Fertile Prairie, Gas City, Monarch, Repeat, Richey, Richey Southwest, Vida, Weldon and Wills Creek South.
**Little Wall Creek and Willow Creek North.
***Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF OCTOBER, 1973

	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Exxon Co.	Farmers Union	Jet Fuel Refinery	Phillips Petroleum Co.	Spruce Oil Co.	Westco Refining Co.	Total
Big Wall		5,041								5,041
Cat Creek		3,243			10,833					14,076
Cut Bank	25,733						150,290		138,767	314,790
Elk Basin		10,971		78,512	30,793					120,276
Flat Coulee									9,679	9,679
Fred & George Creek	26,421									26,421
Ivanhoe		5,719								5,719
Keg Coulee		13,582		2,917	1,959					18,458
Kelley				4,625						4,625
Kevin Sunburst	23,159									23,159
Lodge Grass		894								894
Mason Lake		347								347
Melstone					1,756					1,756
Pondera							23,826			23,826
Ragged Point					17,788					17,788
Snyder		161								161
Sumatra & Stensvad		18,245		46,218	67,884					132,347
Tule Creek								53,037		53,037
Whitlash							9,164			9,164
Wolf Springs				1,728						1,728
Total Montana Oil	75,313	58,203		134,000	131,013		183,280	53,037	148,446	783,292
Canadian Oil Imported		551,714		405,500	581,565					1,538,779
Wyoming Oil Imported		1,097,697		937,000	148,432					2,183,129
Total Montana, Canadian & Wyoming Oil	75,313	1,707,614		1,476,500	861,010		183,280	53,037	148,446	4,505,200

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year 1972	24,723	37,303	70,391	132,417
October, 1972	24,625	34,995	62,899	122,519
October, 1973	25,267	49,638	70,424	145,329

PERCENTAGE OF CRUDE OIL REFINED

	Montana	Canada	Wyoming
	17.39%	34.15%	48.46%